**Mnist**

**Introduction:**

The Mnist data-set is one of the best beginner problems, by solving it one can understand the various techniques and models in Neural Network. This dataset is available in the kaggle website in .csv format.

**ANN without keras:**

* The code file contains a 4-layer network with dropout regularization technique.
* It has written without any libraries expect numpy and pandas.
* It scored 96.8% in the kaggle competition.
* It has been trained in the **Google colab** for 7,000 iterations and the parameters values have stored in a csv file. It is available in the parameters folder.

**ANN with keras:**

* Keras is an open source framework to built NN models.
* With keras, a 4-layer NN has been built with ADAM optimization.
* It scored 97.5% in the kaggle competition.